

POWER DEVICE WITH BI-DIRECTIONAL LEVEL SHIFT CIRCUIT

ABSTRACT OF THE DISCLOSURE

A gate driver includes a control signal generator having a first input and configured to output a gate control signal to a power semiconductor switch. The gate control signal generator is provided proximate a high side of the gate driver. A first sub-circuit has a first signal path and a second signal path that are suitable for transmitting signals. The first and second signal paths are coupled to the first input of the gate control signal generator. The second signal path is configured to provide a signal to the first input with a reduced signal delay. A comparator is configured to receive signals from the high side. The comparator is provided proximate a low side of the gate driver.

60034040 v1